

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number  
**WO 2005/084312 A2**

- (51) International Patent Classification: Not classified
- (21) International Application Number: PCT/US2005/006626
- (22) International Filing Date: 28 February 2005 (28.02.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/548,341 27 February 2004 (27.02.2004) US
- (71) Applicant (for all designated States except US): SAN DIEGO STATE UNIVERSITY FOUNDATION [US/US]; Technology Transfer Office, Mail Code 1998, Gateway Center Building, 5250 Campanile Drive, San Diego, CA 92182-1998 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): DHAR, Arun, Kumar [IN/US]; 470 Kalorama Road, Sykesville, Maryland 21784 (US).
- (74) Agent: HILL, Laurie, Ph.D., L.; Morrison & Foerster LLP, 3811 Valley Centre Drive, Suite 500, San Diego, CA 92130 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

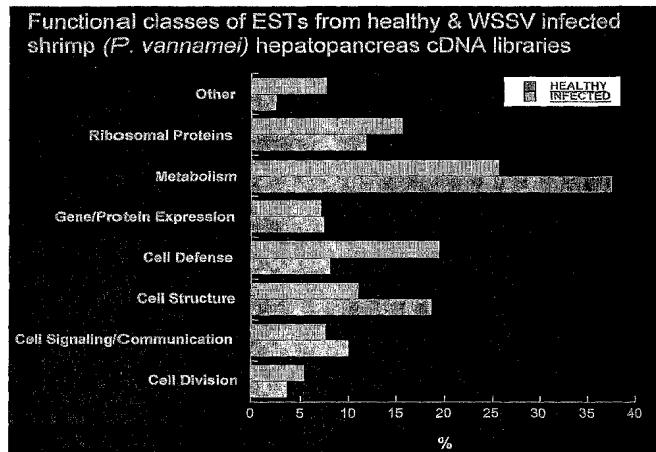
Published:

- without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: DISEASE CONTROL IN SHRIMP

Graphical representation of "Function Classes of genes isolated from hepatopancreas cDNA libraries of healthy and WSSV infected shrimp (*P. vannamei*) that showed similarities with the GenBank database entries."



(57) Abstract: The invention pertains to the composition and methods of use of differentially expressed genes in crustaceans, particularly that of shrimp. Genes that have special significance to the ability of shrimp to combat viral disease are described and their selection, amplification, and application for useful purposes. Compositions are described that are useful in feeds, therapeutics, diagnostics, and research. Methods to reduce the effect of viral infection, especially of the white spot syndrome virus, are also described. The uses of the described genes to monitor and diagnose viral disease are also disclosed.

WO 2005/084312 A2



*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*